

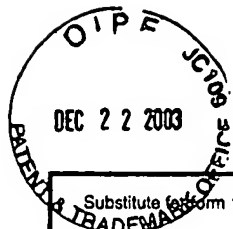
Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/615,342
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	2857
		Examiner Name	Unassigned
Sheet 1	of 1	Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>DL</i>	1	ILES "Clinical biofluids," <u>Encyclopedia of Analytical Science</u> ; Nuclear Magnet Spectroscopy - Applications: 3532-3544 (1995). <i>LNDO 02/01/04</i>	
<i>DL</i>	2	LINDON et al. "Biofluids Studied by NMR," In Encyclopedia of Spectroscopy and Spectrometry. Academic Press, pp. 15-16 (2000). <i>LNDO 02/01/04</i>	
<i>DL</i>	3	NICHOLSON et al. "1H NMR spectroscopy of biological fluids and the investigation of perturbed metabolic processes," <u>Magnetic Resonance in Food Science</u> . Belton, PS et al. (eds), Royal Society of Chemistry (pubs): 40/7:12451250 (1994). <i>LNDO 02/01/04</i>	
<i>DL</i>	4	WEVERS et al. "High-resolution 1H-NMR spectroscopy of blood plasma for metabolic studies," Clinical Chemistry 40/7:1245-1250 (1994). <i>LNDO 02/01/04</i>	

Examiner Signature	<i>H. H. H. H. H.</i>	Date Considered	6-12-04
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PTO/SB/08A (08-03)

Substitute for Form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	10/615,342
		Filing Date	July 7, 2003
		First Named Inventor	David Scott Wishart
		Art Unit	2857
		Examiner Name	Unassigned - WAC/Human
Sheet 1 of 5	Attorney Docket Number	080586-000200US	

U.S. PATENT DOCUMENTS+						
Examiner Initials*	Cite No.	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS.	SUBCLASS
JW	1	2003/0023388	01-30-2003	Aranibar et al.	702	19
JW	2	2002/0145425	10-10-2002	Ebbels et al.	324	309
JW	3	6,063,028	05-16-2000	Schauss et al.	600	30
JW	4	6,035,248	03-07-2000	Wagner	700	266
JW	5	5,926,773	07-20-1999	Wagner	702	22
JW	6	5,887,588	03-30-1999	Usenius et al.	600	410
JW	7	5,878,746	03-09-1999	Lemelson	600	407
JW	8	5,822,219	10-13-1998	Chen et al.	702	27
JW	9	5,726,570	03-10-1998	Spraul et al.	324	321
JW	10	5,710,713	01-20-1998	Wright et al.	702	23
JW	11	5,685,300	11-11-1997	Kuenstner	600	366
JW	12	5,668,373	09-16-1997	Robbat Jr., et al.	250	339.12
JW	13	5,629,210	05-13-1997	Hercules et al.	436	71
JW	14	5,618,734	04-08-1997	Niwa et al.	436	173
JW	15	5,617,861	04-08-1997	Ross et al.	600	410
JW	16	5,559,038	09-24-1996	Kolhouse et al.	436	86
JW	17	5,517,856	05-21-1996	Hofmann et al.	324	321
JW	18	5,470,750	11-28-1995	Bar-or	436	63
JW	19	5,446,681	08-29-1995	Gethner	702	27
JW	20	5,397,987	03-14-1995	Garritano	324	307
JW	21	5,397,989	03-14-1995	Spraul et al.	324	321
JW	22	5,338,687	08-16-1994	Lee	436	173
JW	23	5,318,031	06-07-1994	Mountford et al.	600	410
JW	24	5,313,406	05-17-1994	Kauppinen et al.	702	28
JW	25	5,308,982	05-03-1994	Ivaldi et al.	250	339.12
JW	26	5,283,036	02-01-1994	Hofmann et al.	422	70
JW	27	5,261,405	11-16-1993	Fossel	600	410
JW	28	5,258,712	11-02-1993	Hofmann et al.	324	318
JW	29	5,247,175	09-21-1993	Schoen et al.	250	281
JW	30	5,231,031	07-27-1993	Szwergold et al.	436	63
JW	31	5,229,718	07-20-1993	Demoment et al.	324	307
JW	32	5,220,302	06-15-1993	Nunnally et al.	335	307
JW	33	5,218,529	06-08-1993	Meyer et al.	702	28
JW	34	5,213,101	05-25-1993	Fossel	600	410
JW	35	5,207,715	05-04-1993	Fossel	600	410
JW	36	5,198,766	03-30-1993	Spraul et al.	324	307
JW	37	5,148,166	09-08-1992	Bartuska	324	321
JW	38	5,124,267	06-23-1992	Humpel et al.	436	518
JW	39	5,072,732	12-17-1991	Rapoport et al.	600	415
JW	40	5,055,389	10-08-1991	Bar-Or et al.	435	4
JW	41	5,048,846	09-10-1991	Ray et al.	356	326

Examiner  
Signature

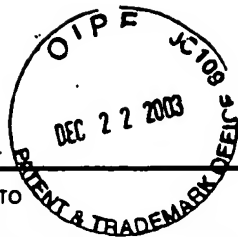
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6-12-04

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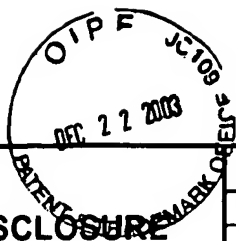
PTO/SB/08B (08-03)

Substitute for form 1449B/PTO		<b>Complete If Known</b>			
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		Filing Date	July 7, 2003		
		First Named Inventor	David Scott Wishart		
		Art Unit	2857		
		Examiner Name	Unassigned - WA Human		
Sheet	3	of	5	Attorney Docket Number	080586-000200US

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Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
JS	66	"NMR Lipoprotein Subclass Analysis: NMR LipoProfile Research Service", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, <a href="http://www.lipoprofile.com/lipomed/Products_Technology/R&amp;D/R&amp;D.htm">http://www.lipoprofile.com/lipomed/Products_Technology/R&amp;D/R&amp;D.htm</a> [printed March 14, 2001]		
JS	67	"Frequently Asked Questions", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610, <a href="http://www.lipoprofile.com/lipomed/FAQS/faq.html">http://www.lipoprofile.com/lipomed/FAQS/faq.html</a> [printed March 14, 2001]		
JS	68	"Understanding the NMR LipoProfile", LipoMed, Inc., 3009 New Bern Avenue, Raleigh, NC, 27610 (2001).		
JS	69	"Varian Nuclear Magnetic Resonance Systems - Bayesian Software", Varian, Inc., 3120 Hansen Way, Palo Alto, CA 94304-1030, USA, <a href="http://www.varianinc.com/nmr/products/software/bayesianonepr.html">http://www.varianinc.com/nmr/products/software/bayesianonepr.html</a> [printed March 19, 2001]		
JS	70	"About INCA", <a href="http://www.bruker.com/nmr/Products/INCA/index.html">http://www.bruker.com/nmr/Products/INCA/index.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	71	"INCA Siting", <a href="http://www.bruker.com/nmr/Products/INCA/inca_siting.html">http://www.bruker.com/nmr/Products/INCA/inca_siting.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	72	"INCA Configurations", <a href="http://www.bruker.com/nmr/Products/INCA/inca_config.html">http://www.bruker.com/nmr/Products/INCA/inca_config.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	73	"About NMR Suite", <a href="http://www.bruker.com/nmr/Software/software.html">http://www.bruker.com/nmr/Software/software.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	74	"NMR Suite - AMIX", <a href="http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/au_home/amix/index.htm">http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/au_home/amix/index.htm</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	75	"AMIX Tutorial", <a href="http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/amix_aurelia/amix_tourTOC.html">http://www.bruker.de/analytic/nmr-dep/nmrsoftw/prodinfo/amix_aurelia/amix_tourTOC.html</a> [printed March 19, 2001], Bruker NMR, Bruker Analytik GMBH.		
JS	76	"Who we are", <a href="http://www.acdlabs.com/company.html">http://www.acdlabs.com/company.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., 90 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.		
JS	77	"ACD/Labs - Spectral Laboratory", <a href="http://www.acdlabs.com/products/spec_lab">http://www.acdlabs.com/products/spec_lab</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
JS	78	"ACD/Combi NMR", <a href="http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/tech.html">http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/tech.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
JS	79	"ACD/Combi NMR: Overview - Combinatorial NMR Data Processing and Analysis Software", <a href="http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr">http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
JS	80	"Combi NMR Interface", <a href="http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/intr.html">http://www.acdlabs.com/products/spec_lab/complex_tasks/combinmr/intr.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
JS	81	"NMR Spectroscopy", <a href="http://www.acdlabs.com/products/spec_lab/nmr.html">http://www.acdlabs.com/products/spec_lab/nmr.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
JS	82	"ACD/CNMR: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/cnmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/cnmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.		
Examiner Signature	KL Wishart		Date Considered	6-12-04

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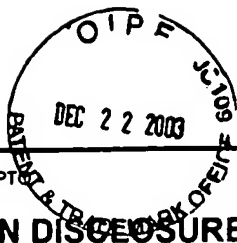
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		Filing Date	July 7, 2003		
		First Named Inventor	David Scott Wishart		
		Art Unit	2857		
		Examiner Name	Unassigned <i>Wishart</i>		
Sheet	4	of	5	Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>W</i>	83	"ACD/HNMR: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/hnmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/hnmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
<i>W</i>	84	"Software Reviews: ACD/NMR Processor", <a href="http://www.acdlabs.com/publish/acd_nmr_proc.html">http://www.acdlabs.com/publish/acd_nmr_proc.html</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
<i>W</i>	85	"CNMR Spectrum generator v4.5," <a href="http://lab.acdlabs.com/webstore/dcnmrngen.htm">http://lab.acdlabs.com/webstore/dcnmrngen.htm</a> [printed March 19, 2001], Advanced Chemistry Development Inc., Toronto, Ontario, Canada.	
<i>W</i>	86	"ACD/2D NMR Predictor: Overview", <a href="http://www.acdlabs.com/products/spec_lab/predict_nmr/2d_nmr">http://www.acdlabs.com/products/spec_lab/predict_nmr/2d_nmr</a> [printed March 19, 2001], Advanced Chemistry Development Inc., 90 Adelaide Street West, Suite 702, Toronto, Ontario, M5H 3V9, Canada.	
<i>W</i>	87	"ACD/NMR Manager, Version 5.0 for Windows, Application Note", 2001, Advanced Chemistry Development Inc., Toronto, Ontario, Canada. <i>Unassigned</i>	
<i>W</i>	88	BAMFORTH et al "Diagnosis of inborn errors of metabolism using 1H NMR spectroscopic analysis of urine," J. Inher. Metab. Dis., SSIEM and Kluwer Academic Publishers, printed in the Netherlands, 22:297-301 (1999). <i>Unassigned</i>	
<i>W</i>	89	BRUST "NMR Chemical Shifts", Nuclear Magnetic Resonance, University of Southern Mississippi, <a href="http://www.psrc.usm.edu/macrog/nmrst.htm">http://www.psrc.usm.edu/macrog/nmrst.htm</a> [printed November 28, 2000].	
<i>W</i>	90	BRUST "Nuclear Magnetic Resonance Spectroscopy", University of Southern Mississippi, <a href="http://www.psrc.usm.edu/macrog/nmr.htm">http://www.psrc.usm.edu/macrog/nmr.htm</a> [printed November 28, 2000].	
<i>W</i>	91	BUSZKO "A World Wide Web Interface to an NMR Spectrometer," available at < <a href="http://micro.ifas.ufl.edu">http://micro.ifas.ufl.edu</a> > (1997, 2003). <i>Unassigned</i>	
<i>W</i>	92	EMSLEY et al. "Magnetic Resonance, Historical Perspective," <u>Encyclopedia of Spectroscopy and Spectrometry</u> , Academic Press: pp. 1232-1240 (2000). <i>Unassigned</i>	
<i>W</i>	93	FREEDMAN et al. "Relation of Lipoprotein Subclasses as Measured by Proton Nuclear Magnetic Resonance Spectroscopy [...]" Reprint from Arteriosclerosis, Thrombosis and Vascular Biology 18:1046-1053 (1998). <i>Unassigned</i>	
<i>W</i>	94	GOLOTVIN et al. "Improved Baseline Correction of FT NMR Spectra", NMR Newsletter, October 1999, < <a href="http://www.acdlabs.com/publish/nmr_ar.html">http://www.acdlabs.com/publish/nmr_ar.html</a> > (visited October 30, 2001), Canada, pp. 1-3, Advanced Chemistry Development Inc., Canada.	
<i>W</i>	95	HOLMES et al "Proton NMR analysis of plasma from renal failure patients: evaluation of sample preparation and spectral-editing methods," Journal of Pharmaceutical & Biomedical Analysis 8:955-958 (1990). <i>Unassigned</i>	
<i>W</i>	96	HOLMES et al, "Automatic Data Reduction and Pattern Recognition Methods for Analysis of 1H Nuclear Magnetic Resonance Spectra of Human Urine....," Analytical Biochemistry 220:284-296 (1994). <i>Unassigned</i>	
<i>W</i>	97	HORNAK "The Basics of NMR," available at < <a href="http://www.cis.rit.edu/htbooks/nmr">http://www.cis.rit.edu/htbooks/nmr</a> > (1997, 2002). <i>Unassigned</i>	
<i>W</i>	98	LINDON et al. "Biofluids Studied by NMR," In <u>Encyclopedia of Spectroscopy and Spectrometry</u> , Academic Press, pp. 98-116 (2002). <i>Unassigned</i>	
<i>W</i>	99	LINDON et al. "Multicentre Assessment of Small Molecule Quantitation in Human Blood Plasma Using 1H NMR Spectroscopy," Journal of Magnetic Resonance Analysis, England, pp. 66-74 (1996).	

Examiner Signature	<i>Red Wishart</i>	Date Considered	6-12-04
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		Filing Date	July 7, 2003		
		First Named Inventor	David Scott Wishart		
		Art Unit	2857		
		Examiner Name	Unassigned <i>WASHAM</i>		
Sheet	5	of	5	Attorney Docket Number	080586-000200US

NON PATENT LITERATURE DOCUMENTS			
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<i>W</i>	100	LINDON et al. "NMR Spectroscopy of Biofluids," Annual Reports on NMR Spectroscopy, Academic Press, ISBN 012505338X, 38:1-88 (1999). <i>Washam</i>	
<i>W</i>	101	NICHOLSON et al. "750 MHz 1H and 1H-13C NMR Spectroscopy of Human Blood Plasma," Analytical Chemistry, 67:793-811 (1995). <i>Washam</i>	
<i>W</i>	102	NICHOLSON et al. "Metabonomics: understanding the metabolic responses of living systems [...] via multivariate statistical analysis of biological NMR spectroscopic data," Xenobiotica, UK, 29:1181-1189 (1999). <i>Washam</i>	
<i>W</i>	103	"Nuclear Magnetic Resonance with a 300 MHz Fourier Transform Spectrometer," Modern Physics Laboratory Manual, Middlebury College, Dept. of Physics, USA, < <a href="http://www.middlebury.edu/~PHManual/nuclearmag.html">http://www.middlebury.edu/~PHManual/nuclearmag.html</a> > (1992, 1993, 2001). <i>Washam</i>	
<i>W</i>	104	PRESS et al. "Parabolic Interpolation and Brent's Method in One Dimension," Numerical Recipes in C - The Art of Scientific Computing, Second edition, Cambridge University Press, pp. 402-405, USA (1992). <i>Washam</i>	
<i>W</i>	105	ROBERTSON et al. "Metabonomics: Evaluation of Nuclear Magnetic Resonance (NMR) and Pattern Recognition Technology for [...] Toxicants," Toxicological Sciences 57:326-337 (2000). <i>Washam</i>	
<i>W</i>	106	SMITH et al. "Nuclear Magnetic Resonance Spectroscopy," Analytical Chemistry, Vol. 34:509R-518R (1995). <i>Washam</i>	
<i>W</i>	107	SPRAUL et al. "Flow Injection Proton (NMR) Spectroscopy Combined With Pattern Recognition Methods [...]," Analytical Communications, Royal Society of Chemistry (UK) 34:1-3 (1997). <i>Washam</i>	
<i>W</i>	108	SYKES et al. "Checking pH without an Electrode", The NMR Newsletter, 968 Elsinore Court Palo Alto, CA, 94303, 30 June 1998 (received 7/3/98), 479-11 and 479-12 (1998).	
<i>W</i>	109	WILLIAMS et al. "The ABC of Metabonomics: Automated Baseline Correction," March 11- 16, 2001, Orlando, Florida, USA, 42nd ENC, ACD Users Meeting, pp. 1-8 (2001).	
<i>W</i>	110	WISHART et al. "Magnetic Resonance Diagnostics: A New Technology for High-Throughput Clinical Diagnostics," Clin Chem 47:1918-1921 (2001). <i>Washam</i>	

Examiner Signature	<i>Washam</i>	Date Considered	6-12-04
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PTO/SB/08A (04-03)

Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 2

**Complete If Known**

Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	Unassigned- 2857
Examiner Name	Unassigned- WALSHMAN
Attorney Docket Number	080586-000200US

**U.S. PATENT DOCUMENTS**

Examiner	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	CLASS	SUBCLASS
		Number	Kind Code <sup>2</sup> (if known)				
10	1	US-5,343,389		08-30-1994	Oivos	4.36	173
W	2	US-4,933,844		06-12-1990	Oivos	6.00	419

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>David S. Wishart</i>	Date Considered	6-12-04
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 18 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Page 2 of 2

**Complete if Known**

Application Number	10/615,342
Filing Date	July 7, 2003
First Named Inventor	David Scott Wishart
Art Unit	Unassigned
Examiner Name	Unassigned
Attorney Docket Number	080586-000200US

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>JS</i>	3	EL-DEREDY "Pattern Recognition Approaches in Biomedical and Clinical Magnetic Resonance Spectroscopy: A Review," NMR in Biomedicine 10: 99-124 n(1997). <i>Wishart</i>	
<i>JS</i>	4	KURHANEWICZ "Citrate Alterations in Primary and Metastatic Human Prostatic Adenocarcinomas: <sup>1</sup> H Magnetic Resonance Spectroscopy and Biochemical Study," Magnetic Resonance in Medicine 29: 149-157 (1993).	
<i>JS</i>	5	LEVY et al. "Data Processing" <u>Encyclopedia Of Nuclear Magnetic Resonance</u> , D.M. Grant et al. (eds.), John Wiley & Sons, vol. 3, pages 1548-1558 (1996). <i>Wishart</i>	
<i>JS</i>	6	SPRAUL et al.: "Automatic Reduction of NMR Spectroscopic Data for Statistical and Pattern Recognition Classification of Samples," Journal Of Pharmaceutical And Biomedical Analysis 12: 1215-1225 (1994). <i>Wishart</i>	

Examiner Signature	<i>John S. Wishart</i>	Date Considered	6-13-04
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